

Appl. No. 09/890,775  
Amdt. dated August 4, 2004  
Reply to Office Action of June 29, 2004

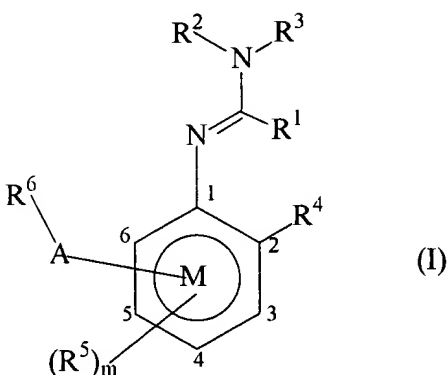
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-73 (Canceled)

74. (Currently Amended) A compound of formula I and salts thereof



wherein

$R^1$  is hydrogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted carbocyclyl and optionally substituted heterocyclyl;

each of  $R^2$  and  $R^3$ , which may be the same or different, is any group defined for  $R^1$ , or together with the nitrogen to which they are attached form a ring, which may be substituted;

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

$R^4$  is selected from the group consisting of alkyl, alkenyl, alkynyl, carbocyclyl and heterocyclyl, each of which may be substituted;

m is 1;

$R^5$  is any group defined for  $R^4$  attached to the 5-position of the benzene ring M;

$R^6$  is optionally substituted carbo- or heterocyclyl; and

A is selected from the group consisting of a direct bond, -O-, -S-, -NR<sup>9</sup>-, -CHR<sup>7</sup>-, and -O-CHR<sup>7</sup>-;

where  $R^9$  is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl;

where  $R^7$  is selected from the group consisting of alkyl, alkenyl and alkynyl, which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and phenyl optionally substituted by a member of the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy and alkylthio; ~~hydroxy, halogen, cyano, acyl, alkoxy, haloalkoxy, and alkylthio;~~

where -A- $R^6$  is in the 4-position of the benzene ring M and the moiety depicted on the right side of linkage A is attached to  $R^6$ ,

or -A- $R^6$  and  $R^5$  together with benzene ring M form an optionally substituted fused ring system.

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

75. (Previously Presented) The compound of claim 74, wherein

$R^1$  is alkyl or hydrogen;

each of  $R^2$  and  $R^3$ , which may be the same or different, is selected from the group consisting of hydrogen, alkyl, alkenyl and carbocyclyl;

$R^4$  is alkyl or alkenyl;

m is 1;

$R^5$  is any group defined for  $R^4$  attached to the 5-position of the benzene ring M;

$R^6$  is optionally substituted carbo- or heterocyclyl; and

A is selected from the group consisting of a direct bond, -O-, -S-, and  $NR^9$ -,

where  $R^9$  is selected from the group consisting of  $-CHR^7$ -,  $-O-CHR^7$ -, optionally substituted alkyl, optionally substituted alkenyl and optionally substituted alkynyl, where said substitution group is selected from the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl;

where  $R^7$  is selected from the group consisting of hydroxy, halogen, cyano, acyl, alkoxy, haloalkoxy, alkylthio, optionally substituted alkyl, optionally substituted alkenyl, and optionally substituted alkynyl, where said substitution group is selected from the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and phenyl optionally substituted by a member of the group selected from alkyl, haloalkyl, alkoxy, haloalkoxy and alkylthio; and

where  $-A-R^6$  is in the 4-position of the benzene ring M and the moiety depicted on the right side of linkage A is attached to  $R^6$ ;

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

or -A-R<sup>6</sup> and R<sup>5</sup> together with benzene ring M form an optionally substituted fused ring system.

76. (Previously Presented) The compound of claim 75 wherein

R<sup>1</sup> is hydrogen;

R<sup>2</sup> and R<sup>3</sup>, which may be the same or different, are alkyl or alkenyl;

R<sup>4</sup> is alkyl;

m is 1;

R<sup>5</sup> is any group defined for R<sup>4</sup> attached to the 5-position of the benzene ring M;

R<sup>6</sup> is optionally substituted carbo- or heterocyclyl; and

A is -O-;

where -A-R<sup>6</sup> is in the 4-position of the benzene ring M and the moiety depicted on the right side of linkage A is attached to R<sup>6</sup>.

77. (Previously Presented) The compound of claim 74 which is selected from the group consisting of:

N'-[4-(3-tert-butylphenoxy)-2,5-dimethylphenyl]-N,N-dimethylimidoforamide,

N'-[4-(3-tert-butylphenoxy)-2,5-dimethylphenyl]-N-ethyl-N-methylimidoforamide,

N-allyl-N'-[4-(3-tert-butylphenoxy)-2,5-dimethylphenyl]-N-methylimidoforamide,

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

N'-(4-{[4-(2-chlorophenyl)-1,3-thiazol-2-yl]oxy}-2,5-dimethylphenyl)-N,N-dimethylimidoformamide,

N'-[2,5-dimethyl-4-(3-phenoxyphenoxy)phenyl]-N-ethyl-N-methylimidoformamide,

N'-{4-[4-chloro-3-(trifluoromethyl)phenoxy]-2,5-dimethylphenyl}-N,N-dimethylimidoformamide,

N'-{4-[4-chloro-3-(trifluoromethyl)phenoxy]-2,5-dimethylphenyl}-N-ethyl-N-methylimidoformamide,

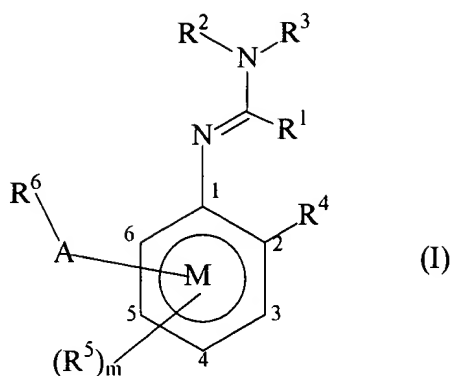
N'-{4-[3-(1-methoxy-1-methylethyl)phenoxy]-2,5-dimethylphenyl}-N,N-dimethylimidoformamide, and

N-ethyl-N'-{4-[4-fluoro-3-(trifluoromethyl)phenoxy]-2,5-dimethylphenyl}-N-methylimidoformamide.

78. (Previously Presented) A fungicidal composition comprising at least one compound as claimed in claim 74 in admixture with an agriculturally acceptable diluent or carrier.

79. (Canceled)

80. (Currently Amended) A method of combating fungi at a locus infested or liable to be infested therewith, which comprises applying to the locus a compound of formula I or a salt thereof



wherein

$R^1$  is hydrogen, optionally substituted alkyl, optionally substituted alkenyl, optionally substituted alkynyl, optionally substituted carbocyclyl and optionally substituted heterocyclyl;

each of  $R^2$  and  $R^3$ , which may be the same or different, is any group defined for  $R^1$ , or together with the nitrogen to which they are attached form a ring, which may be substituted;

$R^4$  is selected from the group consisting of alkyl, alkenyl, alkynyl, carbocyclyl and heterocyclyl, each of which may be substituted;

$m$  is 1;

$R^5$  is any group defined for  $R^4$  attached to the 5-position of the benzene ring  $M$ ;

$R^6$  is optionally substituted carbo- or heterocyclyl; and

$A$  is selected from the group consisting of a direct bond,  $-O-$ ,  $-S-$ ,  $-NR^9-$ ,  $-CHR^7-$ , and  $-O-CHR^7-$ ;

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

where  $R^9$  is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl;

where  $R^7$  is selected from the group consisting of alkyl, alkenyl and alkynyl, which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and phenyl optionally substituted by a member of the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy and alkylthio; ~~hydroxy, halogen, cyano, acyl, alkoxy, haloalkoxy, and alkylthio;~~

where  $-A-R^6$  is in the 4-position of the benzene ring M and the moiety depicted on the right side of linkage A is attached to  $R^6$ ,

or  $-A-R^6$  and  $R^5$  together with benzene ring M form an optionally substituted fused ring system.

81. (Previously Presented) The method of claim 80, wherein  $R^1$  is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl.

82. (Previously Presented) The method of claim 80, wherein  $R^1$  is hydrogen.

83. (Previously Presented) The method of claim 80, wherein  $R^1$  is  $C_1$ - $C_{10}$  alkyl.

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

84. (Previously Presented) The method of claim 80, wherein each of  $R^2$  and  $R^3$ , which may be the same or different, is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen, and optionally substituted phenyl.

85. (Previously Presented) The method of claim 80, wherein each of  $R^2$  and  $R^3$ , which may be the same or different, is  $C_1$ - $C_{10}$  alkyl or hydrogen.

86. (Previously Presented) The method of claim 80, wherein  $R^4$  is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl.

87. (Previously Presented) The method of claim 80, wherein  $R^4$  is  $C_1$ - $C_{10}$  alkyl or halogen.

88. (Previously Presented) The method of claim 80, wherein  $R^5$  is selected from the group consisting of alkyl, alkenyl and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen and optionally substituted phenyl.

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

89. (Previously Presented) The method of claim 80, wherein, when present, R<sup>7</sup> is selected from the group consisting of alkyl, alkenyl, and alkynyl, each of which may be substituted by a member of the group consisting of alkoxy, haloalkoxy, alkylthio, halogen, and phenyl optionally substituted by a member selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy, and alkylthio.

90. (Previously Presented) The method of claim 80, wherein, when present, R<sup>7</sup> is selected from the group consisting of hydroxy, halogen, cyano, acyl, alkoxy, haloalkoxy, alkylthio and hydrogen.

91. (Previously Presented) The method of claim 80, wherein R<sup>6</sup> is optionally substituted phenyl or optionally substituted aromatic heterocyclyl.

92. (Previously Presented) The method of claim 80, wherein R<sup>6</sup> is substituted by one or more substituents, which may be the same or different, and selected from the group consisting of alkyl, alkenyl, alkynyl, carbo- and heterocyclyl, each of which may be substituted.

93. (Previously Presented) The method of claim 80, wherein R<sup>6</sup> is substituted by one or more substituents, which may be the same or different, and selected from the group consisting of hydroxy, mercapto, azido, nitro, halogen, cyano, acyl, optionally substituted amino, cyanato,

**Appl. No. 09/890,775**  
**Amdt. dated August 4, 2004**  
**Reply to Office Action of June 29, 2004**

thiocyanato,  $-\text{SF}_5$ ,  $-\text{OR}^a$ ,  $-\text{SR}^a$  and  $-\text{Si}(\text{R}^a)_3$ , where  $\text{R}^a$  is selected from the group consisting of alkyl, alkenyl, alkynyl, carbocyclyl and heterocyclyl, each of which may be substituted.

94. (Previously Presented) The method of claim 80, wherein  $\text{R}^6$  is substituted by one or more substituents, which may be the same or different, and selected from the group consisting of hydroxy, halogen, cyano, acyl, amino, alkylamino, dialkylamino, alkyl, haloalkyl,  $\text{R}^a\text{O}$ -alkyl, acyloxyalkyl, cyano-oxyalkyl, alkoxy, haloalkoxy, alkylthio, carbocyclyl, and benzyl, where  $\text{R}^a$  is selected from the group consisting of alkyl, alkenyl, alkynyl, carbocyclyl and heterocyclyl, each of which may be substituted.

95. (Previously Presented) The method of claim 94, wherein said  $\text{R}^6$  is substituted by carbocyclyl, which is optionally substituted by a member selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy and alkylthio.

96. (Previously Presented) The method of claim 94, wherein said  $\text{R}^6$  is substituted by benzyl, which is optionally substituted by a member selected from the group consisting of alkyl, haloalkyl, alkoxy, haloalkoxy and alkylthio.